)4 03/18/2004

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STRUCTURE FILE UPDATES: 17 MAR 2004 HIGHEST RN 664302-53-8 DICTIONARY FILE UPDATES: 17 MAR 2004 HIGHEST RN 664302-53-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

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=> file zcaplus

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FILE COVERS 1907 - 18 Mar 2004 VOL 140 ISS 12 FILE LAST UPDATED: 17 Mar 2004 (20040317/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

Files Used

=> FIL HCAPLUS

FILE 'HCAPLUS' ENTERED AT 13:41:46 ON 18 MAR 2004
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FILE COVERS 1907 - 18 Mar 2004 VOL 140 ISS 12 FILE LAST UPDATED: 17 Mar 2004 (20040317/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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	L42		130718	SEA FILE=HCAPLUS ABB=ON PLU=ON (INSECT OR INSECTS OR
				INSECTICID? OR PEST OR PESTS OR PESTICID?)/CW
	L51		665905	SEA FILE=HCAPLUS ABB=ON PLU=ON ?SILICIC ACID? OR ?SILICA?
	L52		2907	SEA FILE=HCAPLUS ABB=ON PLU=ON L42 AND L51
	L53		2319	SEA FILE=HCAPLUS ABB=ON PLU=ON L52 AND PY<1999
•	L66		87	SEA FILE=HCAPLUS ABB=ON PLU=ON L53 AND ((?LITHIUM? OR
				?SODIUM? OR ?POTASSIUM? OR ?RUBIDIUM? OR ?CESIUM? OR ?FRANCIUM?
				OR ?BERYLLIUM? OR ?MAGNESIUM? OR ?CALCIUM? OR ?STRONTIUM? OR
				?BARIUM? OR ?RADIUM?) (L) (SILICATE OR SILICIC ACID))
	L67		45	SEA FILE=HCAPLUS ABB=ON PLU=ON L53 AND ((ALKALI OR ALKALINE
				OR GROUP 1 OR GROUP 1A OR GROUP I OR GROUP IA OR GROUP 2 OR
				GROUP 2A OR GROUP II OR GROUP IIA) (L) (SILICATE OR SILICIC
				ACID))
	L68		222	SEA FILE=HCAPLUS ABB=ON PLU=ON L53 AND ((LI OR NA OR K OR RB
		_		OR CS OR FR OR BE OR MG OR CA OR SR OR BA OR RA) (L) (SILICATE
				OR SILICIC ACID))
/	L69	1		SEA FILE=HCAPLUS ABB=ON PLU=ON (L66 OR L67 OR L68)
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	L42		130718	SEA FILE=HCAPLUS ABB=ON PLU=ON (INSECT OR INSECTS OR
				INSECTICID? OR PEST OR PESTS OR PESTICID?)/CW
	L51			SEA FILE=HCAPLUS ABB=ON PLU=ON ?SILICIC ACID? OR ?SILICA?
	L52			SEA FILE=HCAPLUS ABB=ON PLU=ON L42 AND L51
	L53			SEA FILE=HCAPLUS ABB=ON PLU=ON L52 AND PY<1999
	L66		,87	SEA FILE=HCAPLUS ABB=ON PLU=ON L53 AND ((?LITHIUM? OR
				?SODIUM? OR ?POTASSIUM? OR ?RUBIDIUM? OR ?CESIUM? OR ?FRANCIUM?
				OR ?BERYLLIUM? OR ?MAGNESIUM? OR ?CALCIUM? OR ?STRONTIUM? OR
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				GROUP 2A OR GROUP II OR GROUP IIA) (L) (SILICATE OR SILICIC

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                OR CS OR FR OR BE OR MG OR CA OR SR OR BA OR RA) (L) (SILICATE
                OR SILICIC ACID))
                                        PLU=ON
                                                (L66 OR L67 OR L68)
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L69
             49 SEA FILE=HCAPLUS ABB=ON PLU=ON L69 AND ?CARRIER?
L71
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         130718 SEA FILE=HCAPLUS ABB=ON PLU=ON (INSECT OR INSECTS OR
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                INSECTICID? OR PEST OR PESTS OR PESTICID?)/CW
         665905 SEA FILE=HCAPLUS ABB=ON PLU=ON ?SILICIC ACID? OR ?SILICA?
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           2907 SEA FILE=HCAPLUS ABB=ON PLU=ON L42 AND L51
L52
           2319 SEA FILE=HCAPLUS ABB=ON PLU=ON L52 AND PY<1999
L53
             87 SEA FILE=HCAPLUS ABB=ON PLU=ON L53 AND (-(?LITHIUM? OR
L66
                ?SODIUM? OR ?POTASSIUM? OR ?RUBIDIUM? OR ?CESIUM? OR ?FRANCIUM?
                 OR ?BERYLLIUM? OR ?MAGNESIUM? OR ?CALCIUM? OR ?STRONTIUM? OR
                ?BARIUM? OR ?RADIUM?) (L) (SILICATE OR SILICIC ACID))
             45 SEA FILE=HCAPLUS ABB=ON PLU=ON L53 AND ((ALKALI OR ALKALINE
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                GROUP 2A OR GROUP II OR GROUP IIA) (L) (SILICATE OR SILICIC
                ACID))
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                OR CS OR FR OR BE OR MG OR CA OR SR OR BA OR RA) (L) (SILICATE
                OR SILICIC ACID))
                                                 (L66 OR L67 OR L68)
            273 SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON
169
                                                 L69 AND CLAY
L72
            28 SEA FILE=HCAPLUS ABB=ON
                                        PLU=ON
=> d que 176
                                                 CHLORFENAPYR/CN
              1 SEA FILE=REGISTRY ABB=ON
                                          PLU=ON
T.38
             40 SEA FILE=REGISTRY ABB=ON PLU=ON
                                                  CHLORFENAPYR/CNS.
L39
            262 SEA FILE=HCAPLUS ABB=ON PLU=ON
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L73
175
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                                                 L73 AND (?SILICA? OR ?SILICIC?
              O SEA FILE=HCAPLUS ABB=ON PLU=ON L75 AND PY<1999
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                                                   records deemed inter ime
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YOU HAVE REQUESTED DATA FROM 36 ANSWERS - CONTINUE? Y/(N):y
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L79 ANSWER 1 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:509058 HCAPLUS

DOCUMENT NUMBER:

127:157973

TITLE:

SOURCE:

Solid pesticide preparations with improved

spreadability on water surfaces

INVENTOR(S):

Yagyu, Norihide; Kokuritsu, Tomoyuki; Sato, Yasunori;

Yonemura, Shinji

PATENT ASSIGNEE(S):

Hokko Chemical Industry Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				~
JP 09194302	A2	19970729	JP 1996-21683	19960116 <
JP 2970865	B2	19991102		

PRIORITY APPLN. INFO.:

JP 1996-21683 19960116

The prepns. contain (A) pesticides, (B) slightly water-soluble or water-insol. solvents selected from fatty acid esters, mineral-based hydrocarbon oils, or synthetic nondrying oils which have b.p.
≥150° and show sp. gr. ≤1 when mixed with pesticides,
(C) nonionic surfactants (HLB ≥8), (D) water-soluble polymers, and (E) mineral powders. The prepns. float and spread well on water surfaces to exhibit high pesticidal effects. Granules containing O-Et
O-(N-methoxyacetimidoyl) phenylthionophosphonate 2.0, liquid paraffin 10.0, polyoxyethylene styrylphenyl ether (HLB 10.0) 0.2, starch hydrolyzate
10.0, clay 67.3, silicic acid 10.0, and
Na lauryl sulfate 0.5 weight% totally controlled Laodelphax striatellus even 7 days later.

L79 ANSWER 2 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:100901 HCAPLUS

DOCUMENT NUMBER:

124:138658

TITLE:

Agrochemical granules containing calcium

silicate hydrates, surfactants, and

mineral-based carriers

INVENTOR(S):

Zen, Shigekazu; Ishimoto, Yasuhiko; Katayama,

Yasuyuki; Imai, Masayoshi

PATENT ASSIGNEE(S):

Sumitomo Chemical Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ ______ _ _ _ _ _____ JP 07309702 A2 JP 1994-102863 19951128. 19940517 <--PRIORITY APPLN. INFO .: JP 1994-102863 19940517

Agrochem. granules contain (a) hydrophobic agrochems., i.e. pesticides or plant growth regulators, dissolved in hydrophobic solvents, (b) Ca silicate hydrates showing SiO2/CaO ≥1.5 (by mol), (c) surfactants, and (d) mineral-based carriers. The granules show high hardness (resistance to disintegration during transportation) and are rapidly disintegrated in H2O. α-Cyano-3-phenoxybenzyl 2,2,3,3-tetramethylcyclopropanecarboxylate 10, Hisol SAS 296 20, Morwet D 425 25, Morwet EFW 2, Florite R 10, and kaolin clay 33 weight parts were made into granules, which were disintegrated by 60 g load/granule in a loading test, vs. by 10 g load/granule, for controls containing Hi-Sil 233 (silica) instead of Florite R.

L79 ANSWER 3 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1992 2315 HCAPLUS

DOCUMENT NUMBER:

116:2315

TITLE:

Pesticide application to building materials

INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:

Hotta, Hiroshi; Nagata, Kenji Shinto Paint Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

A2 19910514 JP 1989-251471 19890927 <--JP 03112902 JP 06099243 B4 19941207 PRIORITY APPLN. INFO.: JP 1989-251471 19890927 Microcapsules contain pesticidal active ingredient (e.g. chlorpyrifos, fenitrothion), inorg. resin liquid, and mineral carrier, for treatment of lumber and soil surfaces to inhibit pest growth, such as fungi, bacteria, and insects (e.g. termite). A preparation contained inorg. resin (100 parts) consisting of potassium silicate 50, hardening agent aluminum silicate 30, CaCl2 10, and H3CO3 10%, a polyamide microcapsule 5 parts containing 20% chlorpyrifos, and 5 parts polyurethane containing 10% IF-1000. The preparation was applied to the soil of

building foundation to control termite and mold.

L79 ANSWER 4 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1991:201798 HCAPLUS

DOCUMENT NUMBER:

114:201798

TITLE:

Sustained-release insecticidal granules.

INVENTOR(S):

Suzuki, Shoji; Matsumoto, Naoki; Wada, Muneo

PATENT ASSIGNEE(S):

Nissan Chemical Industries, Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03007202	A2	19910114	JP 1990-52368	19900302 <
TD 3077155	B2	20000814		

PRIORITY APPLN. INFO.:

JP 1989-51081 A1 19890303

Sustained-release granules are manufactured by coating oil sorption-free granular carriers with solns. containing H2O-soluble adhesives and H2O-insol. adhesives and overcoating with fine powders containing insecticides. Siliceous sand was coated with aqueous solution containing poly(vinylpyrrolidone) and poly(vinyl acetate), overcoated with fine powders containing carbosulfan, epoxidized soybean oil, diethylene glycol, Na ligninsulfonate, and Ca silicate, and mixed with colorant to manufacture insecticidal granules, which released 5, 20, and 38% carbosulfan in H2O at 15° 10 min, 6 h, and 48 h later, vs. 89, 90, and 100%, without poly(vinyl acetate), resp.

L79 ANSWER 5 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1989:548919 HCAPLUS

DOCUMENT NUMBER:

111:148919

TITLE:

Salt-stabilized solid pesticidal preparations

INVENTOR(S): PATENT ASSIGNEE(S): Katayama, Yasuyuki; Horide, Fumio Sumitomo Chemical Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE __________ WO 1988-JP252 19880310 <--WO 8806842 Α1 19880922

searched by D. Arnold 571-272-2532

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W: JP
         RW: FR, GB, NL
                            19890301
     EP 304492
                       A1
                                           EP 1988-902538
                                                             19880310 <--
     EP 304492
                       В1
                            19941207
         R: FR, GB, NL
                                           JP 1988-502468
     JP 2548981
                       B2
                            19961030
                                                             19880310 <--
                            19960910
                                           JP 1996-57368
     JP 08231322
                       A2
                                                             19960314 <--
     JP 2647071
                       B2
                            19970827
PRIORITY APPLN. INFO.:
                                        JP 1987-59164
                                                             19870313
     Solid particles are prepared consisting of (1) synthetic pyrethroid benzyl
     esters having cyano groups at the \alpha-position, (2) organophosphoric
     acid esters, (3) mineral carriers, and (4) at least one alkali
     or alkaline earth metal weak acid salt. \alpha-Cyano-3-phenoxybenzyl
     2-(4-chlorophenyl)-3-methylbutylate 3, 0,0-di-Me S-(1,2-
     dicarboethoxy)ethylphosphorodithioate 30, Sorpol-5060 5, Tokuseal GU-N
     (white carbon) 30, CaCO3 5, and a kaolinite clay to
     100 parts by weight were mixed and pulverized to give a wettable preparation
L79 ANSWER 6 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN
                         1988:2178 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         108:2178
```

TITLE:

Controlled-release systems containing inorganic

microcapsules.

INVENTOR(S):

Teraoka, Ryuji

PATENT ASSIGNEE(S):

Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION NO.	DATE
JP 62201156	A2	19870904		JP 1986-44391	19860228 <
PRIORITY APPLN. INFO.	:		JP	1986-44391	19860228

AB A mixture of microcapsules, containing a controlled-release substance, and a binder is impregnated into a gas-permeable **carrier** material. A composition containing **Na silicate**, a bactericide (not specified), sorbitan monolaurate, and cyclohexane was homogenized and added to NH4HCO3. The mixture was stirred. The particle slurry was adjusted to pH 5-6 with malic acid to give bactericide-containing **silica** micropcapsules (10-50 μm). These were mixed with styrene-butadiene rubber, using benzene as solvent. The mixture was applied onto the surface of a synthetic resin unwoven cloth. No biol. examples are given.

L79 ANSWER 7 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1987:115274 HCAPLUS

DOCUMENT NUMBER:

106:115274

TITLE:

Fragrant solid insecticide

INVENTOR(S):
PATENT ASSIGNEE(S):

Asase, Susumu; Takahashi, Tatsuji Hasegawa, T., Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

Japane

FAMILY ACC. NUM. COUNT:

APPLICATION NO. DATE PATENT NO. KIND DATE _____ ____ _____ ______ ____ JP 61233603 A2 19861017 JP 1986~88220 19860418 <--JP 62054761 B4 19871117

PRIORITY APPLN. INFO.:

JP 1986-88220 19860418

A volatile liquid fragrance is impregnated into a composition containing Ca silicate carrier and subliming insecticide powder to give a fragrant solid insecticide. Thus, jasmine perfume 12, Ca silicate 3, and p-dichlorobenzene 85 g were dry-mixed and made into tablets.

L79 ANSWER 8 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1986:143995 HCAPLUS

DOCUMENT NUMBER:

104:143995

TITLE:

Agrochemical carriers

INVENTOR(S):

Iriko, Kazuo; Tamura, Komei; Edakawa, Setsuji

PATENT ASSIGNEE(S):

Toyo Denka Kogyo Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

KIND DATE

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

APPLICATION NO. DATE ______ JP 60222402 A2 19851107 JP 1984-76438 19840418 <--PRIORITY APPLN. INFO.: JP 1984-76438 19840418 Microcryst. CaCO3-silicate complexes with a sp. surface of >60 m2/g and an oil absorbency of >70 mL/100 g are agrochem. carriers The product stabilizes the agrochems. and increases their shelf-life. Thus, a composition containing di-Et 2-isopropyl-4-methyl-6pyrimidinylphosphorothioate (I) 30 and microcryst. CaCO3-silicate complex (sp. surface 98 m2/q; oil absorbency 90 mL/100 q) was kept at 50° for 6 mo. The remaining I was 96.5%.

L79 ANSWER 9 OF 36 HCAPLUS, COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1986:136080 HCAPLUS

DOCUMENT NUMBER:

104:136080

TITLE:

Preparation of silica fine powder as

carrier for pharmaceuticals and pesticides Uno, Ikuo; Maeda, Kyuzo; Nishiyama, Takashi

PATENT ASSIGNEE(S):

Shionogi and Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

INVENTOR(S):

Patent

LANGUAGE:

SOURCE:

Japanese

FAMILY ACC. NUM. COUNT:

	PATENT NO.	KIND	DATE	APE	PLICATION NO	. DATE	
	JP 60226826	A2	19851112	JP	1984-84818	19840425 <	
PRIO	RITY APPLN. INFO.	:		JP 198	34-84818	19840425	
AB	A fine powder of	silic	a containing	<0.35%	Al203 conta	aminant is a	
	suitable carrier for pharmaceuticals or pesticides. The active						
	agents are stabilized in the carrier. A procedure is described						
	for the elimination of the contaminant Al2O3 from com. Na						
	silicate and for	the p	reparation of	a fir	ne powder of	silica.	

L79 ANSWER 10 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1985:608952 HCAPLUS

DOCUMENT NUMBER:

103:208952

TITLE:

Floating agrochemical carriers

INVENTOR(S):

Sekiguchi, Mikio; Takahashi, Iwao; Sakai, Shinichi;

Masui, Akio; Kojima, Toshikatsu

PATENT ASSIGNEE(S): SOURCE:

Nippon · Kayaku Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60142901	A2	19850729	JP 1983-247350	19831228 <
JP 63030281	B4	19880617		

PRIORITY APPLN. INFO.:

JP 1983-247350 19831228

A composition consisting of water-soluble carrier powders and, optionally, granules, organic or inorg. film-forming compds. having a lower solubility than that of the water-soluble carriers, and active agrochems., is a floating composition for controlling water weeds and pests. Thus, a composition containing diazinon [333-41-5] 5, Na silicate 3, anhydrous Na2SO4 92, and water 8 parts was granulated (12-32 mesh). The product controlled the water-surface insects Echinocnemis squameus and Laodelphax striatellus or rice more efficiently than a conventional granular submerged insecticide.

L79 ANSWER 11 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1985:115968 HCAPLUS

DOCUMENT NUMBER:

102:115968

TITLE:

Volatile composition

PATENT ASSIGNEE(S): SOURCE:

Enkler Business K. K., Japan Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATE	ENT NO.	KIND	DATE ·		APPLICATION	NO.	DATE	
				-				
JP 5	59193979	A2	19841102	2	JP 1983-682	211	19830418	<
PRIORITY	APPLN. INFO.	:		JP	1983-68211		19830418	
AB The	composition .	is prep	pared by	adding	an aqueous	liquio	d containi	ng the
volatile	component							

to a mixture of calcined gypsum and H2O-captive inorg. or organic compound, then

solidifying. The method is especially useful in confining insecticides, deodorants, and rust inhibitors in a slow-release medium. Thus, 80 parts calcined gypsum and 20 parts Florite (Ca silicate)

were blended, mixed with aqueous solution of Biotalk (stabilized ClO2), then the

mixture was solidified. The volatile component vaporized gradually.

L79 ANSWER 12 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1980:527157 HCAPLUS

DOCUMENT NUMBER:

93:127157

TITLE:

Silicic acid powder as

agrochemical carrier

PATENT ASSIGNEE(S):

Tokuyama Soda Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

SOURCE:

Patent Japanese

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55085502	A2	19800627	JP 1978-158635	19781225 <
JP 61008802	B4	19860318		,
JP 62188968	A2	19870818	JP 1986-303788	19861222 <
JP 01037691	B4	19890809		

PRIORITY APPLN. INFO.:

JP 1978-158635

Silicic acid derivs. powder having fine pores of <150 Å diameter is a caking-free agrochem. carrier. Thus, porous Na silicate [6834-92-0] powder having a volume of fine pores (50-150 Å diameter) of 1.1 mL adsorbed 2.2 mL BPMC [3766-81-2] dissolved in lubricating oil. The product was fluid and no caking was observed after storage.

L79 ANSWER 13 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1978:116356 HCAPLUS

DOCUMENT NUMBER:

88:116356

TITLE:

Solubility improvement of pesticides

INVENTOR(S):

Hattori, Takahiro; Okada, Takao; Shimado, Toshihiko;

Fujita, Tsunekazu

PATENT ASSIGNEE(S):

Ishihara Sangyo Kaisha, Ltd., Japan

SOURCE:

Jpn. Tokkyo Koho, 5 pp. CODEN: JAXXAD

DOCUMENT TYPE:

Patent.

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION NO.	DATE
JP 52047016	B4	19771129		JP 1974-55175	19740517 <
JP 50154430	A2	19751212			
PRIORITY APPLN. INFO.	:		JP	1974-55175	19740517
GI					

The solubility of pesticides in formulations containing granular carriers AB is increased by addition of carbonates or silicates. Thus, postemergence application of a granular composition containing chlomethoxynil

(I) [32861-85-1] and Na metasilicate [6834-92-0] at 300 q/are effectively controlled Echinochloa crus-qalli (99.3%) compared to control without silicate (65.4%).

L79 ANSWER 14 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1976:404526 HCAPLUS

DOCUMENT NUMBER:

85:4526

TITLE:

Granulated fertilizer with insecticidal action

INVENTOR(S):

Aries, Robert

PATENT ASSIGNEE(S):

Fr.

SOURCE:

GI

Fr. Demande, 10 pp.

CODEN: FRXXBL

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u> </u>	'			
(FR 2272051 }	A1	19751219	FR 1974-17723	19740521 <
FR 2272051	В3	19770318		
PRIORITY APPLN. INF	0.:		FR 1974-17723	19740521

A granulated N-P or N-P-K fertilizer is coated with an organic AB P-containing insecticide of general formula I, where R=Et or Me, X=N or CH, Y = Cl, Br, or CF3 and Z=S or O. The insecticides used for coating were: bromophos [2104-96-3], chlorpyrifos [2921-88-2], fenchlorphos [299-84-3], dichlorfenthion [97-17-6], and fospirate [5598-52-7]. Polyalkylene, polyethylene, polypropylene glycols, kaolin, talc, and silicates were used as adjuvants. Thus, a 15-15-15 N-P-K fertilizer (46) was coated with dichlorfenthion (2.5) and SiO2 powder (1.5 kg); the product contained 5% insecticides.

L79 ANSWER 15 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1973:428194 HCAPLUS

DOCUMENT NUMBER:

79:28194

TITLE:

Adsorbents containing silicic acid and metal silicates as carriers

for plant protectives

AUTHOR (S):

Almassy, Gyula; Antal, Janos; Bohanszky, Mrs. Laszlo;

Dienes, Lajos

CORPORATE SOURCE:

Budapesti Vegyimuvek, Budapest, Hung.

Magyar Kemikusok Lapja (1973), 28(2), 83-9

CODEN: MGKLAL; ISSN: 0025-0163

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

SOURCE:

Hungarian

A review with 58 refs. on metal silicate, silica [7631-86-9] and expanded perlite as adsorbents for pesticide formulations. Preparation and testing methods are discussed. Perlite is not suitable for pesticidal dust formulations, but could be used for the formulation of soil decontaminants.

L79 ANSWER 16 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

a finely

ACCESSION NUMBER: 1973:107018 HCAPLUS

DOCUMENT NUMBER: 78:107018

TITLE:
PATENT ASSIGNEE(S):

Granular pesticides Stauffer Chemical Co.

SOURCE:

Brit., 3 pp. CODEN: BRXXAA

DOCUMENT TYPE:

Patent English

LANGUAGE:

Elig.

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
(GB 1305320)	A	19730131	GB 1971-28168	19710616 <	
AU-7131553	A1	19730125	AU 1971-31553	19710722 <	
PRIORITY APPLN. INFO	.:		US 1970-57776	19700723	
AB Granular pestic	ides ar	e prepared	by spraying relativel	y nonadsorbent	
particles into	the pes	ticidal so	lution, followed by ba	ckdrying with	
divided, highly adsorbent powder, such as Ca silicate,					

divided, highly adsorbent powder, such as Ca silicate, and by repeating the process until the granules are formed with the requisite amount of pesticide around the nonadsorbent carrier.

Thus, 86.5 g CaCO3 chips are treated with 1/3 of a solution of 5 g N-(mercaptomethyl)phthalimide-S-(0,0-dimethylphosphorodithioate)
[732-11-6] in 4 g heavy aromatic naphtha and 1 g of a tall oil fatty acid, followed by the addition of 1 g Ca silicate. The remaining 2/3 of the solution were added in 2 portions, together with 1 g Ca silicate each, to give a free-flowing granular product.

L79 ANSWER 17 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1973:39358 HCAPLUS

DOCUMENT NUMBER:

78:39358

TITLE:

Granules comprising inert cores coated with an

absorbent powder

INVENTOR(S):

Taylor, Geoffrey Gordon

PATENT ASSIGNEE(S):

Fruitgrowers Chemical Co. Ltd.

SOURCE:

U.S., 4 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3672945	A	19720627	US 1969-867401	19691017 <
PRIORITY APPLN. IN	FO.:		NZ 1968-154193	19681018

AB Granules having an absorbent coating which absorbs agricultural chems. for release on application to the desired locus were prepared by using a H2O-soluble adhesive to bind an absorbent powder to the outside of granules of a solid inert material. For example, 270 lbs. of 22-35 mesh BBS calcite [13397-26-7] granules was blended with 10.2 lb 60% molasses solution in a ribbon blender. A damp sorbent powder mixture (64 lb) of micro-Cel E (hydrated synthetic Ca silicate) 32, china

clay 13, and H2O 54% was added and the mixture was blended until all the damp dust was coated onto the core particles. The coated material was then dried in a rotary dryer at 140.deg.F to < 0.5% H2O content, and 100 lb of granules was sprayed with 11.3 lb 99% tech. parathion [56-38-2] and rotated in the dryer until free flowing.



L79 ANSWER 18 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1970:402991 HCAPLUS

DOCUMENT NUMBER:

73:2991

TITLE:

Porous minerals as carriers for insecticidal

dimethyl 2,2-dichlorovinyl phosphate

INVENTOR(S):

Gancberg, Abraham; Carpentier, Raymond; Paquet, Rene

PATENT ASSIGNEE(S):

UCB (Union Chimique-Chemische Bedrijven), S. A.

SOURCE:

Ger. Offen., 19 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
DE 1948438	Α	19700409	DE 1969-1948438 19690925 <
GB 1275558	Α	19720524	GB 1968-45818 19680926 <
NL 6914339	Α	19700401	NL 1969-14339 19690922 <
FR 2019496	A 5	19700703	FR 1969-32503 19690923 <
CH 497128	Α	19701015	CH 1969-497128 19690924 <
IL 33047	A1	19740114	IL 1969-33047 19690924 <
BE 739355	Α	19700325	BE 1969-739355 19690925 <
AT 298143	В	19720425	AT 1969-9081 19690925 <
DK 126013	В	19730604	DK 1969-5092 19690925 <
PRIORITY APPLN. INFO.	:		GB 1968-45818 19680926

AΒ Porous plates of pumice, Ca silicate aluminate, or a amosite-silica agglomerate, treated with acid, were impregnated

with Cl2C:CHOP(O)(OMe)2 (I) and protected against moisture by addition of silicon oil or polyethylene. These prepns. showed insecticidal activity, "knock-down" effects, against houseflies. Thus, 20 + 3.5 + 0.65 cm plates of amosite-silica agglomerate were treated with 100 g 5% HO2CCO2H, dried at 110-20°, and impregnated with a

68.4:31.6 mixture of I and tetrachlorodiphenyl and 1% methylphenylsilicon oil.

L79 ANSWER 19 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1967:463291 HCAPLUS

DOCUMENT NUMBER:

67:63291

TITLE:

Adjuvants in the preparation of pesticides

INVENTOR(S): SOURCE:

Serrallach Julia, Jose A. Neth. Appl., 38 pp.

CODEN: NAXXAN

DOCUMENT TYPE:

Patent

LANGUAGE:

Dutch

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE		APPLICATION NO.	DATE	
	NL 6612525		19670307			<-	
	DE 1567138				DE		
	ES 327783				ES		
	FR 1516787				FR		
	GB 1164321				GB		
PRIOR	RITY APPLN. INFO	.:	*	ES		19650906	
				ES		19660124	

cf. CA 66: 1872t. The prepns. of pesticide compns. containing AB surfactants and other additives to form liqs. or colloidal or semi-colloidal suspensions is described. The following compns. were

```
prepared (product, percent active material, percent surfactant, percent
    diluent, and ratio of components given): liquid concentrate (I), 70% dinocap,
30%
    nonylphenol polyethylene glycol (0.7-10.3 mole epoxy ethanes), -,
     20:1-1:20; liquid concentrate (II), 70% malathion, 30% ethylan M.C., -,
20:1-1:20:
     liquid concentrate (III) 70% chlordane, 30% nonylphenol polyethylene glycol
     (9.5-14 mole epoxyethanes), -, 20:1-1:20; wettable powder, 30% I, -, 70%
     sawdust, 1:10-10:1; wettable powder, 30% II, -, 70% diatomaceous earth,
     1:10-10:1; wettable powder, 30% III, -, 70% kaolin, 1:10-10:1;
    powder, 2% I, -, 20% S-78% talc., 1:200-1:10; powder, 10% II, -, 40%
    kaolin-50% talc, 1:100-1:4 and 20:1-1:20 resp., powder, 10% III,
     10%, -, attapulgite-80% talc, 100-1:4 and 20:1-1:20 resp.; liquid concentrate,
40%
     I and 60% II (IV), ratio arbitrary; liquid concentrate, 40% dimethoate and 60%
II
     (V), ratio arbitrary; liquid concentrate 60% II and 40% III (VI), ratio
arbitrary;
    wettable powder, 40% IV, -, 60% synthetic silicates, 1:9-4:1;
    wettable powder, 70% V, -, 30% synthetic silicates, 1:9-4:1;
    wettable powder, 40% VI, -, 20% kaolin-40% diatomaceous earth,
    1:9-4:1; powder, 10% IV, -, 60% kaolin-30% pyrophyllite,
     1:100-1:4; powder, 15% V, -, 20% kaolin-65% talc, 1:100-1:4,
    powder, 5% VI, -, 95% talc, 1:100-1:4; liquid concentrate, 80% V and 20%
    Chlorfenson (VII), -, -, 100:1-3:1 (V: Chlorfenson); wettable powder, 40%
    VII, -, diatomaceous earth, 1:10-4:1 (diluent), powder, 20% VII, 26%
     synthetic silicates-60% talc, 1:100-1:3 (diluent).
L79 ANSWER 20 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                        1966:62886 HCAPLUS
DOCUMENT NUMBER:
                        64:62886
ORIGINAL REFERENCE NO.: 64:11796f-h
                        Pesticidal formulation containing a complex of calcium
TITLE:
                        carbonate and silica
INVENTOR (S):
                        Nemec, Joseph W.; Nolan, Edward A., Jr.
PATENT ASSIGNEE(S):
                        Rohm & Haas Co.
SOURCE:
                        4 pp.
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        Unavailable
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
    PATENT NO.
                    KIND DATE
                                         APPLICATION NO. DATE
     ______
                                          _____
                                                 • 19570820 <--
    US 3194730
                           19650713
                                         US
    A complex formed by the reaction of a diatomaceous Ca
AB
    silicate, Micro-Cel, with CO2 was used as a carrier for
    base-sensitive pesticides. CO2 was charged into a mixture of 200 Micro-Cel
    10 parts H2O in a 1-1. round bottom flask provided with an agitator until
    absorption of CO2 ceased (1.5 hrs.). In 40 min. temperature rose from
    25-70°. The free flowing product, 242 parts, was an intermol.
    complex of CaCO3 and SiO2 with the carbonate in aragonite structure. For
    Micro-Cel and the finished product the pH (aqueous slurry), g./cc., and
    particle size in \mu were 9.2, 0.35, 2.2 and 8.7, 0.52, 3.1, resp.
    Kelthane, Karathane, malathion, in the presence of the complex
    carrier and wetting and dispersing agents, were present in 90-95%
    of initial concentration after 1 hr. at 100°, 2 weeks at 60°, or
    30-40 days at room temperature compared to 70% of initial concentration in
absence of
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the carbonated silicate.

L79 ANSWER 21 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 1965:406452 HCAPLUS

DOCUMENT NUMBER: 63:6452 ORIGINAL REFERENCE NO.: 63:1175b-c

Gel fungicides, herbicides, and insecticides

Fisons Pest Control Ltd. PATENT ASSIGNEE(S):

SOURCE: 13 pp. DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 641214		19640612	BE	<
FR 1426882			FR	
NL 301648			NL	

PRIORITY APPLN. INFO.: GB 19621213

Finely divided basic copper chloride 350 was added to a mixture of stearic acid (I) 60, NaOH 1.4, and H2O 800 parts which was stirred and heated to 65-70°. The mixture was stirred, cooled to 30°, 10 parts Me3N (II) and 100 parts H2O were added, and then allowed to stand until gelled. The gel was dispersed in H2O 1:2 and sprayed on banana plants where it adhered under 10 cm. of artificial rain. Cu chloride, I, and II, were replaced by atrazine, Ca silicate, Calflo E, dieldrin, DDT, N-(p-chlorophenyl)-N'N'-dimethylurea, 4,5,6,7-tetrachloroquinoxaline, palmitic or arachidic acid, and Bu2NMe, Pr3N, Bu2NH, resp., either sep. or in mixts.

L79 ANSWER 22 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1965:54773 HCAPLUS

DOCUMENT NUMBER: 62:54773

ORIGINAL REFERENCE NO.: 62:9720d-f

Preparation of materials for protracted and regular TITLE:

reactivity of active substances

PATENT ASSIGNEE(S):

CIBA'Ltd. SOURCE: 10 pp. DOCUMENT TYPE: Patent

LANGUAGE:

Unavailable

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

P	ATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-					
N	L 6401097		19640812	NL	<
PRIORI	TY APPLN. INFO.:			CH	19630211

A continuous, even delivery of organic biol. active substances which are AΒ volatile, particularly biocides, is obtained by mixing the active substance with a solid which sublimes at room temperature and has a m.p. of 40-200° and an absorbent carrier material of fine porosity, such as SiO2, silicate, dried Kiesel acid gel, activated charcoal, sawdust, cellulose, wood chips, or fiber strips. The active substance is a liquid phosphoric ester or thiophosphoric ester, in particular dimethyl dichlorovinyl phosphate (DDVP) or its derivs. The solid may be naphthalene, a chlorobenzene, camphor and its derivs., urethan, acetylurethan, menthol, or trioxane. The concentration of active substance is 20-50% by weight, as calculated on total weight of the mixture of

sublimate and absorbent. A mixture of 60 parts by weight naphthalene, 30 parts

DDVP, and 10 parts SiO2 (Hisil) is warmed until the naphthalene has melted. The mixture is cooled, with stirring until crystallization occurs.

This is

poured into a cylinder and closed with metal foil until used. If fiber is used as absorbent (e.g., a roll of loosely woven cotton) it is soaked in the mixture of naphthalene and DDVP. It will unroll slowly to expose a new surface as the mixture evaporates from the outside of the roll.

L79 ANSWER 23 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1965:25259 HCAPLUS

DOCUMENT NUMBER:

62:25259

ORIGINAL REFERENCE NO .:

62:4555f-h,4556a-c

TITLE:

Hydrophobic siliceous insecticidal compositions

INVENTOR (S):

Marotta, Ralph

PATENT ASSIGNEE(S):

Monsanto Co.

SOURCE:

9 pp.

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. ______ US 3159536 AB

KIND DATE _ _ - - - - - -

_ _ _ _

APPLICATION NO. DATE

19641201

US

19600422 <--

Partially or completely hydrophobic siliceous materials are themselves insecticidally more effective han inert dusts because the former retain their potency and low elec. conductivity under humid conditions. The bulk d.

of

hydrophobic siliceous materials should be 0.2 g./cc. and the elec. conductivity not over 10-7 mho/cm. Natural and synthetic SiO2, fume silicas, silica aerogels, and insol. metal silicates are prepared with Ba, Ca, Mg

silicates, kaolinite, montmorillonite clays,

talc, fuller's earth, bentonite, etc. Synthetic SiO2, precipitated SiO2, and silica aerogels can be rendered hydrophobic by coating

with hydrophobic agents. The procedure comprises immersion wetting or treating silica with a hydrophobic agent dissolved in an organic

solvent. It may be allowed to stand or be heated at

30-60°. The resulting material may be ground to below 20

μ. The silicas may also be sprayed with a

hydrophobing agent or the material may be exposed to the vapors of monomethyltrichlorosilane, dimethyldichlorosilane, or

trimethylmonochlorosilane. HCl formed by hydrolysis during treatment with

chlorosilanes may be removed by air at 300° or

neutralized with NH3. SiO2 with a surface area of 100-250 sq. m./g. is coated with about 3 to 20% of a dimethyl silicone oil, also halosilanes and polysiloxanes. The dimethyl silicone oils are prepared by hydrolysis of

dimethyldichlorosilane or cohydrolysis of the latter and trimethylmonochlorosilane or by the catalytic equilibration of a mixture of

cyclic dimethylsiloxanes and hexamethyldisiloxane with a minor proportion of H2SO4. The particles have low elec. conductivity and pick up electrostatic

charges. The hydrophobic materials may also be combined with anhydrous hydrostable, nondeliquescent salt(I), e.g., CaSO4, CuSO4,

Al2(SO4)3, Na tripolyphosphate, Na

metasilicate, etc., to provide insecticidal compns. which are effective over an extended period. Such compns. will not lose their insecticidal properties when exposed to humid conditions up to 3 days. It may be desirable to incorporate a physiol. active insecticide, e.g. DDT, with the siliceous powder for increased effect. Examples of the invention are given. At 56 g./min. Santocel (silica aerogel) of

15 μ size is fed into a grinder, during 25 min. and 100 g. dimethylsilicone oil is sprayed on at 4 g./min. The ground material is heated in an oven at 300° for 10 min. The resulting hydrophobe contains 7% by weight of the silicone and has the surface area, particle size and elec. conductivity described. Hydrophobic siliceous materials using aerogel,

fume silica, bentonite, and kaolin were insecticidally effective, had the proper phys. properties, and were unaffected by exposure to 100% humidity for 24 hrs., whereas, the untreated hydrophilic silicas were insecticidally effective when dry but lost this property after exposure as above. The compns. were evaluated for insecticidal properties on termite, roach, red flour beetle, and the two spotted spider mite. All hydrophobic materials, including those which had been exposed as described, killed 100% of the insects within 15 min. The untreated and exposed materials killed more than 20% of the insects.

L79 ANSWER 24 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1963:446632 HCAPLUS

DOCUMENT NUMBER:

59:46632

ORIGINAL REFERENCE NO.:

59:8381e-h,8382a

TITLE:
INVENTOR(S):

Reactive siliceous substance Mays, R. K.; Bertorelli, O. L.

PATENT ASSIGNEE(S):

J. M. Huber Corp.

SOURCE:

31 pp.

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
					
	BE 624155		19630214	BE	<
	GB 1020282			GB	
PRIOR	RITY APPLN. INFO.	:	US		19611103
AB	This new substan	ce, dr	ied at 105°, co	ntained 75-92% Si	02,
	≥5% H2O, and <15	% other	r oxides. At l	east 80% of the S	iO2 of the
	correctonding 39	6 0	sina/l solutio	n was rendered so	luble in 30 mi

corresponding 39.6 g. SiO2/l. solution was rendered soluble in 30 min. in a 50° N NaOH solution The composing elements were disposed in a laminar lattice with >20 micromoles SiOH/sq. m. plane BET (Brunauer-Emmett-Teller) sp. surface. The BET sp. surface was 300-500 sq. m./g., of which ≥60% was due to porosity in the particles. Pore volume was \geq 36%, and pore diameter <0.002 μ , causing sorption of <0.0019 micromole. This was a paracryst. substance of high chemical reactivity, made up of leaflike, hexagonal particles 0.003-0.02 μ thick, 0.5-2 μ wide, and with 0.1-5 μ faces. It was used to prepare metallic silicates with using alkali metal, alkaline earth, Zn, and Pb oxides. It was used to absorb gases, liquids, odors, as humidity absorbent in salt, as support in accelerators and antioxidants for rubber, insecticides, and as charge in pigments. One kg. very finely divided **kaolin**, 55-60% of its particles <2 μ and 20-5% >5 μ with a BET sp. surface of 14.9 sq. m./g., was heated 24 hrs. at 550°, then cooled and dispersed in 1505 g. H2O containing 2.5 g. Na4P2O7. The kaolin contained 39.25 Al2O3, 45.12 SiO2, 0.71 Fe203, 0.89 TiO2, 0.49 CaO, 0.14 MgO, and 14.13% combined H2O. well-mixed dispersion, 1190 g. 93.19% H2SO4 was rapidly added. violent exothermic reaction raised the temperature to 105° in 2 min. Enough froth was formed to increase the original volume several times. H2O in 100-200-g. amts. was added several times. With return to normal volume, enough H2O was added to bring the acid concentration down to 30%, and the temperature

dropped to 94°. The digestion was maintained 4 hrs. at this temperature

The dispersion was then cooled, H2O diluted, filtered, and the cake well washed to eliminate Al2(SO4)3. The cake was dried at 105° and pulverized. The substance contained 85.3% SiO2, 6.52% metallic oxides, and 8.18% H2O. The concentration of silanols was 135 micromoles/sq. m. plane

sp.

surface. The acidity was 0.005 mol. equivalent/100 g. Up to 93.5% of its SiO2 content dissolved in 50° N NaOH solution The total BET sp. surface was 418, while the pore BET sp. surface was 380 sq. m./g. Oil absorption was 70 ml./100 g., while H2O absorption was 14.2% in 72% relative humidity. The humidity tolerance conferred on table salt was 0.58. The kaolin gave similar results when heated 2 hrs. at 700-900°.

L79 ANSWER 25 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1963:39716 HCAPLUS

DOCUMENT NUMBER:

58:39716

ORIGINAL REFERENCE NO.:

58:6718a-c

TITLE:

Pesticidal wettable powder and dust compositions

INVENTOR(S):

Wales, Harold E.

PATENT ASSIGNEE(S):

Allied Chemical Corp.

SOURCE:

4 pp.

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 908620		19621024	GB	19610329 <
DE 1153936			DE	

GI For diagram(s), see printed CA Issue.

The compns. containing decachlorooctahydro-1,3,4-methano-2H-cyclobuta [cd] pentalen-2-one (I) were effective as against pests of citrus fruits, potatoes, apples, the imported fire ant, and a wide range of chewing insects. Hexachlorocyclopentadiene and SO3 were stirred, and the product was hydrolyzed with a large volume of aqueous alkaline solution. The mixture was agitated at 90-5° for 0.5 hr., neutralized with H2SO4, the crystalline product filtered off or centrifuged, and ground. The product had to contain 3 or 4 moles H2O. It could be mixed with carriers such as Mg and Al silicates,

clays, fuller's earth, gypsum or S. A typical composition was a mixture of 54.0% pesticide, 42.8 Al silicate, 1% Altox 5050, 52% Polyfon H, and 0.2% Novonacco.

L79 ANSWER 26 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1962:418627 HCAPLUS

DOCUMENT NUMBER:

57:18627

ORIGINAL REFERENCE NO.:

57:3830i,3831a

TITLE:

Synthetic inorganic pulverulent carriers for

pesticides

INVENTOR(S):

McKone, Colin E.; Eaton, John K.

PATENT ASSIGNEE(S):

"Shell" Research Ltd.

SOURCE:

8 pp.

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 897480		19620530	GB	19590320 <
DE 1183307			DE	

Use of a small amount of a water-soluble Ca salt, e.g. AB CaCl2(0.2-10%), in water-dispersible pesticide powders improves the stability of the dispersion. The carrier is a synthetic product, preferably hydrated Ca silicate or SiO2, and preferably containing 45% more of the pesticide and 0.5-1% of a wetting agent. The components are thoroughly mixed and subjected to a hammermill.

L79 ANSWER 27 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1961:127110 HCAPLUS

DOCUMENT NUMBER:

55:127110

ORIGINAL REFERENCE NO.:

55:23920a-d

TITLE:

Siliceous calcium silicate as an

inert carrier for organic pesticides

INVENTOR(S):

Vander Linden, Carl Rene; Blair, Laurence R.

PATENT ASSIGNEE(S):

Johns-Manville Corp.

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ _____ _____ 19600428 DE DE 1080812

By hydrothermal reaction, a siliceous Ca silicate is AB made from lime with diatomaceous earth, or with quartz or silicic acid gel in a CaO:SiO2 mole ratio of 0.67:1. For example, a mixture of 2CaO.3SiO2.1-2.5H2O and aqueous SiO2 is made from an aqueous Ca silicate and a siliceous material at 182-332° and can be used as inert carrier, the x-ray diagram of which shows 2 very strong lines at 3.12 and 4.12 and 1 weaker line at 8.34 A. The 2CaO:3SiO3.1-2.5H2O is suitable as carrier either for tech. aldrin with a content of at least 77.9% 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-dimethanonaphthalene, or for dieldrin containing at least 85% 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8aoctahydro-1,4,5,8-dimethanonaphthalene, or for toxaphene (chlorinated camphene). Thus, a suspension (a) was made from finely crushed diatomaceous earth in H2O with a content of 143 g. solids/l. and a suspension (b) from lime hydrate and H2O containing 238 g. solids/1. 1. of (a), 3400 1. H2O, and 175 1. of (b) were pumped into the reaction vessel, and the container was kept at 232° for 2 hrs. The final product (CS-55) had a bulk d. of 96 g./l. and a Gardner-Coleman adsorption of 453 kg./100 kg. solids. A 75% wettable DDT powder was made by dry mixing of 375 g. powdered DDT, 50 g. kaolinite, 60 g. Ca silicate hydrate (CS-55 from above), 7.5 g. Na lignosulfonate, and 7.5 g. Na N-methyl-Noleoyltaurine. This was subjected first to tropical storage conditions and then to hard H2O, etc.

L79 ANSWER 28 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1961:114096 HCAPLUS

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.:

55:114096

TITLE:

55:21467h-i Carriers for insecticides

INVENTOR(S):

Nolan, Edward Albert, Jr.; Nemec, Joseph W.

PATENT ASSIGNEE(S):

Rohn & Haas Co.

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

FAMILY ACC. NUM. COUNT:

PATENT NO. KIND DATE APPLICATION NO. DATE

DE 1079383 19600407 DE <-GB 895992 GB

AB Diatomaceous Ca silicate (I) treated at 0-90° with CO2 in the presence of H2O is suitable as a carrier for insecticides, especially those which are sensitive to alkaline conditions. Thus, 250 g. dry ice is added during 3 hrs. to 1000 parts I (H2O content 10% by weight). The mixture is stirred for 1 hr.

L79 ANSWER 29 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1961:78100 HCAPLUS

DOCUMENT NUMBER: 55:78100

ORIGINAL REFERENCE NO.: 55:14804d-i,14805a-b

ORIGINAL REFERENCE NO.: 33:140040-1,140030-D

TITLE: Carriers for insecticidal dusts and methods

for their investigation

AUTHOR(S): Shogam, S. M.; Orlov, V. L.; Epshtein, T. B.;

Sidorova, S. V.; Fen'kova, E. I.

SOURCE: Trudy, Nauch. Inst. po Udobren. i Insektofungisidam

im. Ya. V. Samoilova (1959), (No. 165),

36-45

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB Properties investigated were: (1) Chemical constitution. In talcs, prophyllites, and other Al and Mg silicates, a fundamental indication of purity of carriers is the content of calcified HCl-insol. residue. Supplementary indications are content of HCl-soluble combined Fe, loss on calcification, pH of aqueous extract or alkali content, as titrated with HCl. The allowable Fe content is a function of the degree of dispersion of Fe compds. on the surface of the particles of the carrier. (2) The tolerance to disintegration in the presence of insecticides. This is determined by milling in a porcelain ball mill with a ratio of porcelain balls to weight of material of 3:1. The resulting degree of dispersion is determined from (a) particle size distribution found by air separation; (b) sp. surface, as determined by resistance

to the passage of a current of air; (c) the residue on a Number 0090 sieve after wet or dry sieving. (3) The ability of the **carrier** to promote the disintegration of the insecticide. The **carrier** and the insecticide, e.g. DDT, are milled together under standard conditions, and the amount of DDT in the fraction containing particles of less than 22 μ diameter is determined (4) Phys. properties: (a) absorptive properties, i.e., porosity and hygroscopicity are determined by maintaining a sample in a desiccator above a solution of H2SO4 of a concentration which corresponds to

the

relative humidity of the air at the given temperature, until constant weight is attained. (b) Wettability is determined by projection on a screen of the image of a drop of liquid (H2O) supported on a layer of the powdered material which has been scattered on a glass plate coated with a solution of Canada balsam.

(c) Settling is determined by examination of the change in the distributed weight as

determined by the free fall of the powder before and after it has supported a given load. (d) Permanence is determined by the amount of residue after a given

quantity of dust supported on turning celluloid sheets has been subjected to the action of artificial rain and wind. (5) Microstructure of the carrier is investigated by optical and electron microscope in fractions of diams. A fibrous structure in talc is unfavorable to the effectiveness of the dust. (6) Thermal stabilities of 6% tech. DDT and of pure 4,4'-DDT, resp., were determined by heating at 120° for 2 hrs. in a

uniform air current and determination of the ${\tt Cl}$ ion content in ${\tt EtOH}$ solution of the

residue. Materials investigated were talcs, including those with a low content of calcified HCl-insol. residue and also talc substitutes: schists, kaolin, as such and with the addition of spindle oil, clays, and ashes from electrofilters. The least tendency to aggregation was observed in hydrophobic carriers. Addns. of talc to kaolin reduced the settling. Imported talc with a 93% HCl-insol. residue was most hydrophobic, and next came Spasskie pyrophlite, followed by Shabrovski clay. Addition of 2% paraffin during the preparation of the dusts renders the surface of the clay hydrophobic. Even more hydrophobic was Spakksi talc with the addition of parafin. Talcs are the least hydrophobic, and schists and power station dusts have an intermediate position. The lowest thermal stability of DDT is found in those dusts prepared with kuvas clay, although the Fe2O3 content did not exceed 4%. A preliminary calcification at 1000° of this material inactivated the effect of the Fe compds. on the thermal decomposition of DDT. The rate of powdering of insecticides with carriers depends on the initial degree of dispersion of the carriers. For each new form of filler the optimal degree of dispersion must be established. Hydrophilic carriers can be made hydrophobic by addition of 2% spindle oil (mark 3V) or a 3:1 mixture of paraffin and spindle oil.

L79 ANSWER 30 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1961:61440 HCAPLUS

DOCUMENT NUMBER: 55:61440 ORIGINAL REFERENCE NO.: 55:11744f-g

TITLE: Compatibility of mineral carriers and

heptachlor

AUTHOR(S): Lhoste, Jean; Gerard, Jean L.

SOURCE: Proc. Intern. Congr. Crop Protect., 4th, Hamburg, 1957

(1960), 2, 1193-8

DOCUMENT TYPE: Journal LANGUAGE: French

AB Some mineral carriers used in the preparation of dust or granular formulations catalyze the degradation of the insecticide. The following carriers were found to degrade heptachlor (in order of increasing catalytic activity): talc; silicates; kaolin. CaCO3 had no effect on the insecticide. A bioassay method was used to show that diethylene glycol was effective in stabilizing the heptachlor formulations (cf. Malina, et al., CA 51, 4633e).

L79 ANSWER 31 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: - 1961:56405 HCAPLUS

DOCUMENT NUMBER: 55:56405

ORIGINAL REFERENCE NO.: 55:10823i,10824a

TITLE: Low-solubility hydrated calcium

silicate

INVENTOR(S): Vander Linden, Carl R.; Blair, Laurence R.

PATENT ASSIGNEE(S): Johns-Manville Corp.

DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
US 2966441		19601227	US		<
FR 1330677			FR		

AB A low-solubility hydrated **Ca silicate** having the approx. formula 2CaO.3SiO2.1-2.5 H2O is produced by reaction of an aqueous slurry of lime and a siliceous material in a CaO:SiO2 mole ratio of 0.67:1. The mixture is held at 232° for 2 hrs. while agitating in a vented container. The x-ray diffraction pattern shows very strong lines d = 3.12 A. and d = 4.12 A., and a medium line at d = 8.34 A. A thermal dehydration curve shows a 10% weight loss for a temperature increase of 0-200° and then a constant weight up to 1000°. The solubility is 39 p.p.m., which renders it practical for use as a **carrier** in the preparation of a wettable powder insecticide dispersion. The method for the preparation of a 75% wettable DDT powder is described.

L79 ANSWER 32 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1960:88065 HCAPLUS

DOCUMENT NUMBER:

54:88065

54:16729a-d

ORIGINAL REFERENCE NO.: TITLE:

The physical study of mineral powders, serving as

diluents of insecto-fungicides

AUTHOR(S):

Petrascu, Sever; Ilie, Maria

CORPORATE SOURCE:

Agronomic Research Inst., Bucharest, Rom.

SOURCE:

Acad. rep. populare Romine, Studii cercetari chim. (

1957), 5, 389-94

DOCUMENT TYPE:

Journal

LANGUAGE:

Unavailable

cf. Wilcoxon, et al., CA 26, 1377, Borchers, et al., CA 29, 82104. The phys. properties of a series of mineral powders (4 types of talc as Mg silicates, 2 types of bentonite and 2 types of kaolin Al silicates, 2 types of diatomaceous earth and colloidal alumina as oxides, and chalk as carbonates), employed as diluents of insecticides and fungicides have been studied. Measurement of the gravimetric consts. which influence dispersibility, i.e. d. (by means of a picnometer, toluene employed as auxiliary liquid), volumetric weight, γ, the apparent sp. weight at free pouring (10-15 detns. in a 3-cm. diameter and 6-cm. high glass cylinder); porosity, Vi% = 100 $(1-\gamma/d.)$, indicated an inverse proportionality between the volumetric weight and the porosity, with the exception of the 2 diatomaceous earth samples. Measurement of the talus angle α (powder being poured in the center of a disk 10 cm. in. diameter, measuring the height of the cones - tan α = 1/10) indicates no correlation between it and the 3 phys. consts. determined previously. Granulometric studies of the powders have been performed by the microscopic (measuring directly the diameter of 1000-2000 granules in the microscope field at 100 enlargement), sedimentation (aqueous suspension), and screening (through a series of standard sieves) methods. The results obtained by microscopy and sedimentation were in good accord in order of magnitude, yet the first method gave a numerical dispersion. Screening results do not agree with the other results, which confirms the unsuitability of this method for the analysis of fine powders.

L79 ANSWER 33 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1956:62185 HCAPLUS

DOCUMENT NUMBER:

50:62185

ORIGINAL REFERENCE NO.:

50:11637b-e

TITLE:

Finely dispersed silicates of low density

INVENTOR(S):

Kloepfer, Harry; Frey, Artur; Weitbrecht, Gerhard;

Kohl, Hans

PATENT ASSIGNEE(S):

Deutsche Gold- und Silber-Scheideanstalt vorm.

Roessler

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

> APPLICATION NO. DATE PATENT NO. KIND DATE US US 2742345 19560417

Aqueous suspensions of natural silicates, e.g. clays of AΒ the kaolin type or bentonites, are heated under pressure in the presence of Ca(OH)2. Kaolins or bentonites are transformed into products of extremely fine-grained nature and of considerable surface development. The Ca(OH)2 should be added in an amount of 15-60% of the weight of the silicate treated, preferably 20-40% calculated as CaO. Treatment takes place in an autoclave at 150-250° under steam pressure. At 200°, the treatment takes a few hrs., at lower temps., the time is lengthened. Even lower-d. products can be obtained when the products are subjected to acid extraction The acidity should not be lower than pH 4-5. These powders are especially useful for compounding rubber for abrasion resistance. For example, 200 g. bentonite, 60 g. slaked lime, and 1500 ml. H2O were thoroughly mixed in a ball mill. The suspension was then introduced into an autoclave, constantly stirred, and heated to 180° for 3 hrs. The reaction product was filtered and dried at >100°. The bulk d. of the product was 120 g./l. as compared with 1138 g./l. for the original bentonite. Of the lime present, 5% was not bound and could be removed by fractional extraction with dilute HCl. The products are said to be useful as thickeners for aqueous and nonaq. liquids, as elastomer fillers, as components in insecticidal dusts, as milling aids, as decolorizers, as suspending agents in paints, as carriers for drugs, as stabilizers in ceramics, and also as mild abrasives and polishing agents for optical glass and in toothpastes.

L79 ANSWER 34 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1948:26133 HCAPLUS

DOCUMENT NUMBER: 42:26133

ORIGINAL REFERENCE NO.: 42:5603h-i,5604a-c

Dispersing, wetting, and adhesive materials for plant TITLE:

protection

Burgdorf, K. AUTHOR(S):

Reichsamt Wirtschaftsausbau Chem. Ber. (1942 SOURCE:

), PB 52021, 1145-53

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

A review of used and approved materials. As carriers for insecticidal and fungicidal dusts are mentioned lime, gypsum, chalk, asbestos, talc, clay, kaolin, and diatomaceous earth. Talc has the best adhesive qualities. A certain water content is important in clays which are used as carriers. Size and form of the carrier particles, and their elec. charges are also important. Colloidal oxides, silicates, and high-mol. hydrophile materials facilitate adhesion of dusts to dew-moistened plant surfaces. More research on the adhesiveness of dust carrier materials would be desirable. Adhesives for spray mixts. include: lime, Na silicate, starch, molasses, sugar, glue; also gelatin, casein, albumin, and their Ca salts; high-mol. carboxylic acids and their salts (particularly alkaline, Ca, and Pb salts); resin, colophony, tall oil, naphthenic acids and their salts; phosphatides, pectin, alginic acid and their salts. Interesting, but to be used in sprays with caution, are soaps of drying oils, or latex and Na salt of cholic acid, which form a continuous coating, or a waterproof coating obtained by means of

melamine-HCHO condensate and acid-hardening materials. Other materials mentioned include: Zn oxide; Ti oxide; dextrin; amylodextrin; erythritol; mannitol; qlycerol; starch xanthate; cellulose ether; cellulose glycol ether; cellulose spent liquor; glutin; tannic acid; various sulfo oleates; condensation products of oleic acid, naphthalene, and H2SO4. Various anion-active and cation-active synthetic wetting and dispersing agents are considered.

L79 ANSWER 35 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

41:28251

ACCESSION NUMBER:

ORIGINAL REFERENCE NO.:

1947:28251 HCAPLUS

DOCUMENT NUMBER:

41:5674h-i,5675a

TITLE:

Classification of insecticide dust diluents and

AUTHOR(S):

carriers
Watkins, Thomas C.; Norton, L. B.

CORPORATE SOURCE:

Cornell Univ., Ithaca, NY

SOURCE:

Journal of Economic Entomology (1947), 40,

211-14

CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE:

Journal

Unavailable LANGUAGE:

A classification of the various diluents and carriers used in the preparation of insecticidal dusts is proposed by W. and N., as follows: (I) Botanical flours (soybean flour; tobacco flour; walnut shell flour; wheat flour; wood flour). (II) Minerals: (1) elements (S); (2) oxides: silicon (tripolite, diatomite); calcium (Ca lime, Mg lime); (3) carbonates (calcite, dolomite); (4) sulfates (gypsum); (5) silicates (mica, talc, pyrophyllite, clays (montmorillonite group (montmorillonite, saponite, nontronite, beidellite); kaolinite group (kaolinite, nacrite, dickite, anauxite); attapulgite group (attapulgite, sepiolite)); phosphates (apatite), indeterminate (pumice). Botanical flours have restricted use. Most diluents used today are of mineral origin. Dana's classification (C.A. 26, 4777) has been modified and simplified in preparing the above classification. The minerals classed under the silicates comprise most of the insecticidal diluents. Each group is discussed with respect to its use in dusts

L79 ANSWER 36 OF 36 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1930:10534 HCAPLUS

DOCUMENT NUMBER:

24:10534

ORIGINAL REFERENCE NO.:

24:1177a-b

TITLE:

Solidifying calcium nitrate and other substances from

PATENT ASSIGNEE(S):

I. G. Farbenindustrie AG

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
GB 313652		19280316	GB		<

Ca(NO3)2 or other substances for use as fertilizers or for other AB purposes are obtained in globular or like form by spraying drops of a solution or melt into a cooling liquid, which is rotated about a vertical axis within it so as to obtain a relatively long cooling path with a small quantity of the liquid. A fine powder such as clay, gypsum, chalk, kieselguhr or Mg silicate may be suspended in the cooling liquid to form a non-adhesive coating of the

solidified particles, or substances such as Ba(OH)2, paraffin oil or wax may be added. CCl4 may be used as a cooling liquid with Ca(NO3)2 and various details of procedure are given.

=> FIL STNGUIDE

03/18/2004

=> FIL HCAPLUS

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RECORDS LAST ADDED: 17 March 2004 (20040317/ED)

FILE RELOADED: 19 October 2003.

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 12, 2004 (20040312/UP).

=> => d que 1146

L146 6 SEA FILE=HCAPLUS ABB=ON PLU=ON "KIMLER JOSEPH"/AU

=> d ibib abs 1146 1-6

L146 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:353979 HCAPLUS

DOCUMENT NUMBER:

136:336653

TITLE:

Sprayable insecticidal chlorfenapyr composition

containing an abrasive

INVENTOR(S):

Kimler, Joseph

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 6 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2002054898 A1 20020509 US 1999-282.857 19990331
PRIORITY APPLN. INFO.: US 1998-80117P P 19980331

AB A sprayable insecticidal composition having significantly increased efficacy comprises an effective amount of an insecticide, such as chlorfenapyr; an abrasive, such as an alkaline earth metal silicate, an alkali metal silicate, silica, kaolin clay or a mixture thereof; a low level of a surfactant; an inert carrier, such as kaolin clay; and, optionally, a film-forming inhibitor, such as calcium chloride.

L146 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:23636 HCAPLUS

DOCUMENT NUMBER:

132:60506

TITLE:

Ureido-free poison baits containing cellulose for

termite control

INVENTOR(S):

Kimler, Joseph; Colbert, Donald Robert

PATENT ASSIGNEE(S): SOURCE:

American Cyanamid Co., USA Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2000007516 PRIORITY APPLN. INFO.: 20000111

JP 1999-163578 P 19980616 US 1998-89511P

The baits, useful as wood preservatives, contain termiticides, 88-99% cellulose sources selected from birch, (partially) decayed birch, cellulose derivs., and/or purified cellulose, and optionally approx. 0.5-2.0% agar. A bait containing crystalline cellulose 5.0, decayed birch wood 93.7, agar 1.0, and hydramethylnon 0.3% showed good palatability to

termites (Reticulitermes hesperus).

A2

L146 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1995:490064 HCAPLUS

DOCUMENT NUMBER:

122:233358

TITLE:

Water-dispersible granular compositions comprising dinitroaniline and imidazolinone herbicides with

montmorillonite carriers.

INVENTOR(S):

Kimler, Joseph; Kubisch, Robert

PATENT ASSIGNEE(S):

American Cyanamid Co., USA

SOURCE:

U.S., 6 pp. Cont.-in-part of U.S.5, 296, 450.

CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5393731	Α	19950228	US 1993-164169	19931208
US 5294594	Α	19940315	US 1992-996221	19921223
US 5296450	A	19940322	US 1992-996412	19921223
JP 07252107	A2	19951003	JP 1994-321203	19941201
CA 2137412	AA	19950609	CA 1994-2137412	19941206
IL 111895	A1	20011031	IL 1994-111895	19941206
AU 9480281	A1	19950615	AU 1994-80281	19941207
HU 69066	A2	19950828	HU 1994-3504	19941207
BR 9404897	Α	19950808	BR 1994-4897	19941208
PRIORITY APPLN. INFO.	:		US 1992-996221 A2	19921223
			US 1992-996412 A2	19921223
			US 1993-164169 A	19931208

The invention relates to water dispersible granular compns. comprising a AB dinitroaniline herbicide (pendimethalin, trifluralin, isopropalin, ethalfluralin, benfluralin, oryzalin) and an imidazolinone herbicide (imazaquin, imazethapyr, imazamethapyr, imazapyr) with a montmorillonite carrier, wetting agent, suspension agent and dispersion agent. The dispersion agent comprises a base and a water-swellable polymer, such as croscarmellose Na and microcryst. cellulose. Such compns. are storage stable and possess desirable dispersion properties.

L146 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1995:248770 HCAPLUS

DOCUMENT NUMBER:

122:25883

TITLE: INVENTOR(S):

SOURCE:

Herbicidal extruded granules. Johnson, Jerry Lee; Kimler, Joseph

PATENT ASSIGNEE(S):

American Cyanamid Co., USA Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

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PATENT NO.
                   KIND DATE
                                       APPLICATION NO. DATE
    _____
                                       ______
                                       EP 1994-105286
                                                      19940405
    EP 623281
                   A1 19941109
      R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE
    CZ 285958 B6 19991215
                                      CZ 1994-941
                                                      19940419
                    A2
                                       JP 1994-109051
                                                       19940425
    JP 07048211
                         19950221
                         19941029
                                       CA 1994-2122235
                                                      19940426
    CA 2122235
                    AA
                         19950103
                                       ZA 1994-2907
                                                       19940426
    ZA 9402907
                    Α
    AU 9460708
                    A1
                         19941103
                                       AU 1994-60708
                                                       19940427
    AU 666436
                    B2
                         19960208
    BR 9401619
                    Α
                         19941122
                                       BR 1994-1619
                                                       19940427
                                       CN 1994-104836
                         19941221
                                                       19940427
    CN 1096411
                    Α
                         19980529
                                       PL 1994-303227
                                                       19940427
    PL 173810
                    В1
                    B1
                         20000830
                                       RO 1994-725
                                                       19940427
    RO 115928
    SK 279407
                    В6
                         19981104
                                       SK 1994-492
                                                       19940428
    US 5476835
                    Α
                         19951219
                                       US 1994-270983
                                                       19940705
                                    US 1993-54764 A 19930428
PRIORITY APPLN. INFO.:
```

AB The composition comprises an active ingredient, such as an imidazolinone herbicide, an inert carrier, a wetting agent, and a dispersing agent. Thus, a composition comprised: imazaquin (95%) 77.1, Morwet EFN 1.0., Morwet D-425 3.0, and kaolin clay 18.9% weight/weight The compns. are dust free, storage stable, readily dispersible, and environmentally compatible.

L146 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1994:429280 HCAPLUS

DOCUMENT NUMBER:

121:29280

TITLE:

Water dispersible granular herbicidal compositions comprising dinitroaniline herbicides, montmorillonite

carrier, and a base

INVENTOR(S):

Kimler, Joseph; Kubisch, Robert

PATENT ASSIGNEE(S):

American Cyanamid Co., USA

SOURCE:

U.S., 5 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

	O. KINI			PLICATION NO.		
US 52964	50 A			1992-996412		
US 53937	31 A	19950228	US	1993-164169	19931208	
CZ 28478	7 B6	19990317	CZ	1993-2678	19931208	
SK 28090	2 B6	20000912	SK	1993-1430	19931215	
JP 06199	610 A2	19940719	JP	1993-344580	19931220	
JP 33602		20021224				
IL 10810	2 A1	19970930	$_{ m IL}$	1993-108102	19931220	
CA 21120	40 AA	19940624	CA	1993-2112040	19931221	
BR 93051	93 A	19940628	BR	1993-5193	19931222	
AU 93526	43 A1	19940707	UA	1993-52643	19931222	
	9 B2					
				1993-9630		
				1993-3719	19931222	
HU 21422	2 B	19980128	•			
RU 21373	66 C1	19990920	RU	1993-57731	19931222	
EP 60490	6 A1	19940706	EP	1993-120784	19931223	
EP 60490	6 B1	19990526				
R:	AT, BE, CH, I	DE, DK, ES,	FR, GB, C	GR, IE, IT, L	I, LU, NL,	PT, SE
				1993-120784		
				1993-120784		

HK 1998-114618 19981222 HK 1013217 Α1 20000505 US 1992-996221 A2 19921223 PRIORITY APPLN. INFO .: US 1992-996412 A2 19921223

Water-dispersible granular compns. comprising a dinitroaniline herbicide and a dispersion enhancing agent are prepared by a process described. Such compns. are storage stable and contain desirable dispersion properties.

L146 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1994:238290 HCAPLUS

DOCUMENT NUMBER:

120:238290

TITLE:

Water-dispersible granular herbicidal compositions comprising dinitroaniline herbicides, montmorillonite

carrier and water-swellable polymer.

INVENTOR(S):

Kimler, Joseph; Kubisch, Robert

PATENT ASSIGNEE(S):

American Cyanamid Co., USA

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U.S., 5 pp.

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LANGUAGE:

English

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PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE	
US 5294594	A	19940315	US 1992-996221 19921223	
US 5393731	A	19950228	US 1993-164169 19931208	
PRIORITY APPLN.	INFO.:		US 1992-996221 A2 19921223	
			US 1992-996412 A2 19921223	

Storage-stable title compns. comprise a dinitroaniline herbicide, such as AΒ pendimethalin, a dispersion-enhancing agent and a carrier. A suitable dispersion-enhancing agent is 1-ethenyl-2-pyrrolidinone homopolymer.

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2 SEA FILE=BIOSIS ABB=ON PLU=ON "KIMLER J"/AU L147

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TITLE:

Herbicidal imidazolinone extruded granular compositions.

AUTHOR(S):

Johnson, J. L. [Inventor]; Kimler, J. [Inventor]

CORPORATE SOURCE:

Lawrenceville, N.J., USA ASSIGNEE: AMERICAN CYANAMID COMPANY

PATENT INFORMATION: US 5476835 Dec. 19, 1995

SOURCE:

Official Gazette of the United States Patent and Trademark Office Patents, (Dec. 19, 1995) Vol. 1181, No. 3, pp. 1866.

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